***Pogogyne serpylloides* (Torr.) A. Gray –** thymeleaf mesamint

**Lamiaceae – Mint Family**

Account written by Jennifer Miller, 4 December 2020; update 2/17/2022

Recommended Rank assigned by Rare Plant Working Group on 4 December 2020 **S1**

**Current Conservation Status:**

NatureServe: G5 [Not ranked in California] [*Pogogyne floribunda* Jokerst ranked G4S1 in Idaho and Oregon] = **G5S1** [combined]

2009 INPS rank: GP3

BLM: None

FS Reg 1: None

FS Reg 4: None

FS Reg 6: None

FWS: None

**Taxonomy:** First collection = [J.J.F. de Jesus Guirado](https://kiki.huh.harvard.edu/databases/botanist_search.php?botanistid=28180) 714, 1860-1862— North America: US and Canada (Region): United States of America: California: San Benito County: San Juan, near Monterey, dry sandy soil; First published = Proceedings of the California Academy of Sciences 4th series, December 18, 1931. The Genus Pogogyne by John Thomas Howell.

Recent or pertinent taxonomic changes = Idaho’s occurrences of *Pogogyne floribunda* are *Pogogyne serpylloides* based on—Silveira, M.A. and M.G. Simpson. 2013. Phylogenetic systematics of the mesa mints: *Pogogyne* (Lamiaceae). Systematic Botany. pg 782-794.

Also, Dr. Alan Prather, Associate Professor of Plant Biology and Director of the Herbarium, Michigan State University, has been working on an FNA treatment that includes *Pogogyne*.  He reviewed specimen image photos for the observation by Heather Swartz and Valerie Geertson at “South of Tenmile Creek, West of Cole Road,” Idaho (EO-1) and determined that the *P. floribunda* identification more likely fits *P. serpylloides*.

*Synonyms*: *Pogogyne serpylloides* subsp. *intermedia* J.T. Howell (The Plant List, The Jepson Herbarium). Varieties not recognized by NatureServe.

*Other Subspecies/Varieties, if applicable*:Include all other subspecies/varieties and list their presence/absence in Idaho (and status/S rank, if any).

*Type Locality*: Isotype = *Pogogyne serpylloides* subsp. *intermedia*—determined by John Thomas Howell: [J.J.F. de Jesus Guirado](https://kiki.huh.harvard.edu/databases/botanist_search.php?botanistid=28180) 714, 1860-1862— North America: US and Canada (Region): United States of America: California: San Benito County: San Juan, near Monterey, dry sandy soil

*Taxonomic key*(*s*): The Jepson Manual: Vascular Plants of California (page 850). Not in FPNW first or second editions, Flora of Idaho, IMF, and Flora of North America.

**Species Description (OPTIONAL):** prostrate to decumbent, generally branched **INFL**: clusters, terminal and auxillary, style sparsely hairy just below stigma, highly aromatic

**Biology:** Life span─annual, growth form─forb/ herb, reproduces by─seed, flowers in

Idaho—May-June

**Similar species:** Scientific name of species, but not specific attributes

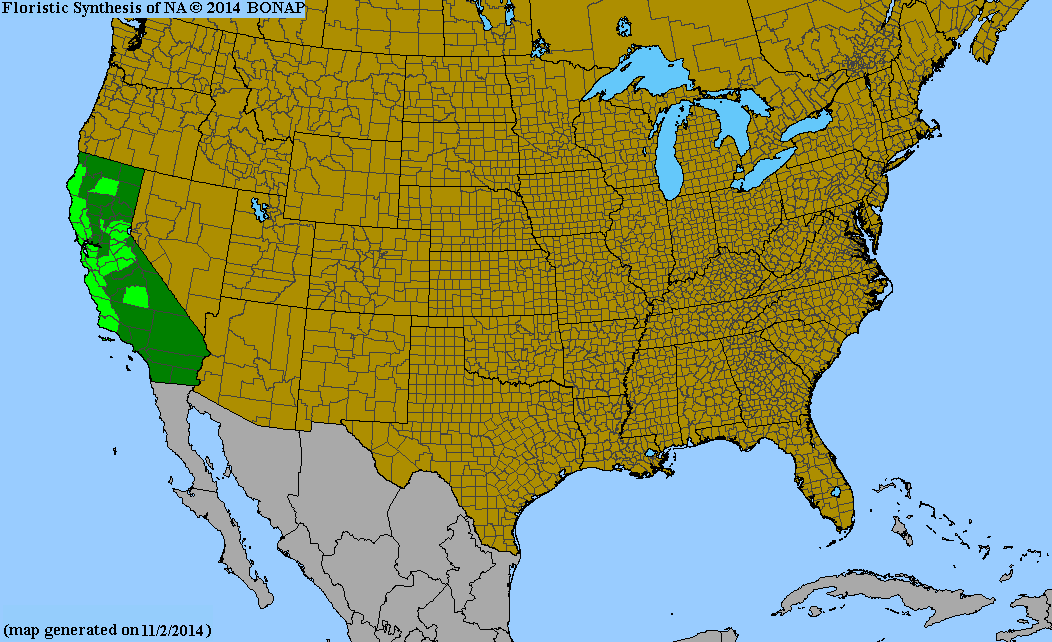
**Habitat:** Elevation—EO 1 = 884 m (2900 ft), EO 2 = ~1780 m (5840 ft); Plant communities—vernally wet habitats; substrate

*Environmental Specificity*: Very narrow (vernally wet habitats)

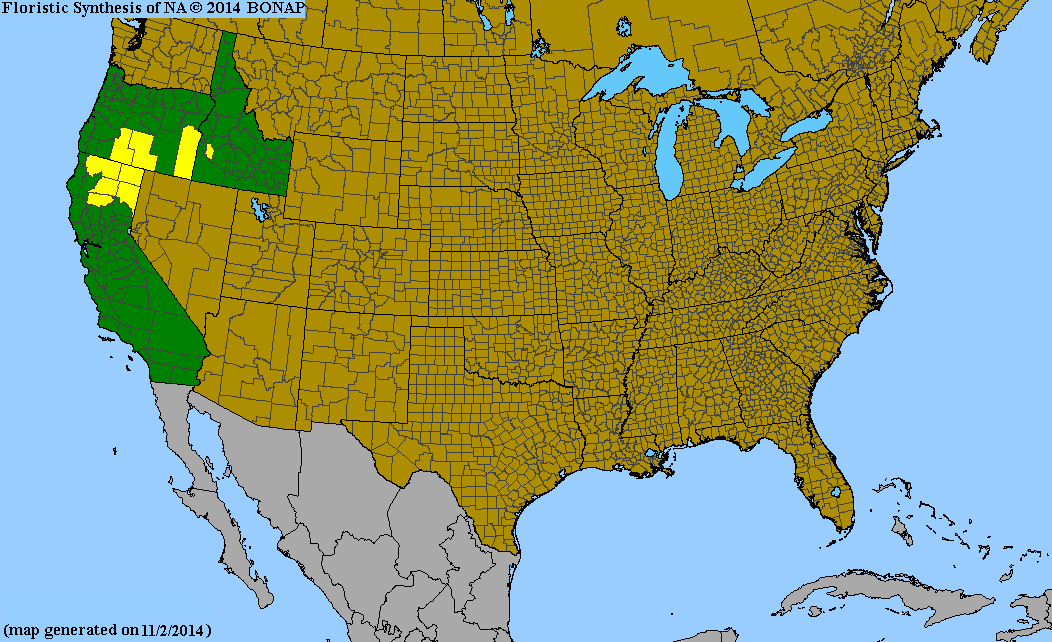
**Cultural and commercial values:** Unknown

**Landownership:**  EO 1 = BLM, EO 2 = State

**Distribution:**

*Global Range*: California, Oregon, and Idaho

(BONAP map is of Pogogyne floribunda, inset is Pogogyne serpylloides)



*Range Extent Descriptor*: southwest Idaho is the northeastern extent of its global range.

*Rank Calculator Idaho Range Extent*:Include mapped/estimated actual square km or miles, and the calculator category (A-H, Z, or U). A = <100 sq km (<~40 sq mi)

*Area of Occupancy:* 2 occurrences = B = 2—4 km2 grid cells

*Idaho Counties*: Ada, Owyhee

*Idaho Specimens*: Put this on a separate spreadsheet if there are numerous specimens

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| --- | --- | --- | --- | --- | --- | --- |
| **Record source (Herbarium, IFWIS, person)** | **Date observed/ collected** | **Observer** | **County** | **Location** | **Abundance, threats, habitat condition** | **revisit** |
| IFWIS | May 23, 2000 | Heather Swartz & Valerie Geertson | Ada | South of Ten Mile Creek | non-native species | 2020 & 2021-Corbin, Debolt, Kinter, Miller—Failed to Find |
| IFWIS | June 3, 2009 | Chris Murphy | Owyhee | Highway 51, north of Riddle | <50 plants, livestock trampling | 2021-Corbin, Kinter, Miller—Failed to Find (drought) |

*Literature Records*: Silveira, M.A. and M.G. Simpson. 2013. Phylogenetic systematics of the mesa mints: *Pogogyne* (Lamiaceae). Systematic Botany. pg 782-794.

*Databases/Herbaria consulted (and query date)*:

IFWIS (24 Nov 2020) = 2

CPNWH (24 Nov 2020) = 1 duplicate (Looked at *P*. *serpylloides* & *P. floribunda*)

IRHN (24 Nov 2020) = 1 duplicate (*P. floribunda*)

NYBG (24 Nov 2020) = 1 duplicate (*P. floribunda*)

RMH (24 Nov 2020) = None

Harvard University = None

*Research Notes:*  Include information here on mis-identified specimens, erroneous reports, location errors, or other relevant information so that others don’t have to chase the same rabbit trails, if applicable

**Abundance:**

*Number of Occurrences*: 2

*Population Size*: <50 plants at EO 2 in 2009

*Number of Occurrences with Good Viability*: None―we looked for EO 1 in 2020 and 2021 and EO 2 in 2021 (2021 was a drought year)

**Conservation concerns:**

*Threats* (*include scope, severity and timing, if known*): Livestock trampling, 2-tracks, Recreational activities, Non-native species, Trash, Drought, herbivory by Mormon crickets

*Overall Threat Rank*: Very High

*Intrinsic Vulnerability*: (Optional; Used only if Threats unknown. A= highly, B=moderately, C=not intrinsically vulnerable.)

**Population trend:**

*Short*: Unknown

*Long*: Unknown

**Proposed rank information:**

*Date Ranked*: 4 December 2020

*Proposed Rank*: S1

*Proposed INPS Status*: Rare

*Comments*:

**Recommended actions:** Name change on list, maintain on Idaho Rare Plant List, add to BLM Special Status Plant List, and continue to inventory.